

## ABSTRACT OF THE DISCLOSURE

Each network device connected to a network broadcasts a cold start trap when activated. A  
5 monitoring device captures this trap and checks whether the trap is an SNMP packet. If the trap is an SNMP packet, the monitoring device extracts the address from the received packet and registers the address in a  
10 directory server, or requests the status of a device as a transmission source and registers the received status in the directory server.